

FINKEL'SHTEYN, A.I.; SUKHORUKOV, B.I.; MUSHKIN, Yu.I.

Optical study of the molecular structure of cyanamide and  
its derivatives. Part 4: Tautomerism of cyanamide and cyanamidine  
in solutions. Zhur.fiz.khim. 37 no.2:290-293 F '63.  
(MIRA 16:5)

1. Dzerzhinskiy filial instituta azotnoy promyshlennosti.  
(Cyanamide--Optical properties) (Tautomerism)

SUKHOBKOV, B.I.; KOSEKOVSKIY, Yu.Sh.; BIRSHTEYN, I.M.; LYSICOV, V.N.

Optical properties and molecular structure of nucleic acids  
and their components. II. Spectroscopic study of the "coil-  
helix" transition in DNA at different temperatures and pH.  
Biofizika 8 no.3:294-300 '63. (MIRA 17:11)

I. Institut khimicheskoy fiziki AN SSSR, Moskva i Institut  
vysokomolekuljarnykh soyedineniy AN SSSR, Leningrad.

SUKHORUKOV, B.I.; POLTEV, V.I.; BLYUMENFEL'D, L.A.

Ionization of bases and proton transfer in nucleic acids and their components. Dokl. AN SSSR 149 no.6:1380-1383 Ap '63.

(MIRA 16:7)

1. Institut khimicheskoy fiziki AN SSSR. Predstavлено академиком M.I.Kabachnikom.

(Nucleic acids) (Protons) (Ionization)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

SUDARSKY, B.I.; PULIN, V.I.

Theoretical analysis of tautomeric conversions in the components of  
nucleic acids and their role in mutagenesis. Biofizika 9 no.2:148-  
159 '64. (MIRA 17:12)

1. Institut khimicheskoy fiziki AN SSSR, Moskva.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

LIKHTENSHTEIN, V. I.; S. M. KALINOV, D. K.

Kinetics of explosive processes. Zhur. fiz. khim. 34 no. 3  
742-751 Mr 1960. (MIRA 177)

1. Institut khimicheskoy radioi AM SSSR i Institut khimii  
AM Fiziko-khimicheskoy radioi.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

FOMIN, G.V.; BELYUMENKO, I.A.; SUKORUKOV, B.I.

Electron-donor properties of the hydroxyl ion. Dokl. AN  
SSSR 157 no. 5:1199-1201 Ag '64. (MIRA 17:9)

1. Institut khimicheskoy fiziki AN SSSR. Predstavлено  
академиком М.Л. Кабачниковым.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

SUKHODUROV, B.I.; LUKHMACHOV, G.I.

Kinetics and mechanism of the denaturation of biopolymers.  
Biofizika 10 no.6:935-942 '65. (MIRA 1961)

I. Institut khimicheskoy fiziki AN SSSR, Moskva. Submitted  
October 15, 1964.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

S/125/60/000/009/016/017  
A161/A130

AUTHORS: Rykalin, N.N., Sukhorukov, B.L.

TITLE: The Participation of the Soviet Delegation in the Proceedings of  
the 13th Congress of the International Welding Institute

PERIODICAL: Avtomaticheskaya svarka, 1960, No. 9. pp. 89-92

TEXT: The 13th annual congress of International Welding Institute was con-  
vened on 13 - 19 June 1960 in Liege, Belgium. The Soviet delegation in-  
cluded the following members. Corresponding Member of AS USSR N.N. Rykalin ✓  
(head of the delegation) of Institut metallurgii im. Baykova AN SSSR (Me-  
tallurgical Institute im. Baykov of AS USSR); Candidate of Technical  
Sciences A.N. Shashkov, of VNIIAVTOGEN; Candidate of Technical Sciences  
A.M. Makara, of Institut elekrosvarki im. Ye.O. Patona (Electric Welding  
Institute im. Ye.O. Paton) of AS UkrSSR; Doctor of Technical Sciences K.V.  
Lyubavskiy, of NTI Mashinostroeniya VTMASPS; Doctor of Technical Sciences I.V.  
Kudryavtsev, of TsNIITMASh; Engineer Ye.K. Alekseyev, of Gosstroy Soveta  
Ministriv SSSR (Gosstroy of the Ministers Council of the USSR); Correspond-  
Card 1/3

S/125/60/000/009/016/017  
A161/A130

The Participation of the Soviet Delegation in the Proceedings of the  
13th Congress of the International Welding Institute

ing Member of ASia SSR (ASandA of the USSR) V.S. Turkin, of VNIIST, Candi-  
date of Technical Sciences M.P. Anuchkin, of VNIIST; and B.L. Sukhorukov  
(Secretary of the delegation), of the Presidium of AS USSR. The further  
information is a brief outline of the work of 15 technical commissions at  
the congress, and the names of the Soviet delegates who participated in each.  
Several report topics of the Soviet delegates are mentioned. (in Commission  
III "Resistance Welding", with Soviet member Ye.K. Alekseev) "Equipment for  
Welding Concrete Reinforcement", by N.Ya. Kochanovskiy and S.M. Taz'ba, and  
"Brief Review of Research Work in Resistance Welding Done During 1957-1958  
in the USSR", by S.K. Sliozberg and B.V. Zhuravlev; (in Commission XI,  
"Pressure Vessels, Boilers and Pipe Lines", Soviet delegate M.P. Anuchkin  
and expert V.S. Turkin participating) the Soviet delegation submitted re-  
ports that will be discussed at the following congress - "Welding Reservoirs  
and Pipe Lines in Winter", by M.P. Anushkin, and "Electrochemical Investi-  
gation of Corrosion Fatigue in Steel, and Protection Methods", by A.V. Ryab-

Card 2/3

S/125/60/000/009/016/017  
A161/A130

The Participation of the Soviet Delegation in the Proceedings of the  
13th Congress of the International Welding Institute

chenkov; (in Commission XIII, "Fatigue Tests", Soviet delegate I.V. Kudryavtsev) - "Fatigue Resistance of Electro-Slag Welds in Large Steel Castings", by I.V. Kudryavtsev, and "Methods of Calculation of Welded Structures for Durability Taking Into Account Nonstationary Alternating Stresses" by B.K. Dushinskii. Among lectures read at the congress (lectures of Belgian, U.S. and British delegates are mentioned) the Soviet delegation contributed a lecture of Academician B.Ye. Paton of AS UkrSSR - "Electro-Slag Welding - the Most Progressive Method of Joining Heavy Metal". K.V. Lyubavskiy read the paper which was accompanied by a motion picture. It is mentioned that the next congress will convene in April 1961 in New York.

Card 3/3

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

SUKHORUKOV, B.L.

Eighteenth Congress of the International Welding Institute. Svar.  
proizv. no.10:39-40 O '60. (MIRA 13:9)  
(Welding--Congresses)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

SUKHORUKOV, B. Z.

"The Problem of the Antigenic Properties of Autogenic Proteins." Cand Med  
Sci, Kazan' State Inst, Kazan', 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher  
Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

SUKHORUKOV, B.Z. (Kazan', ul. Pushkina, d.28, kv.11)

Combined radiation treatment of cancer of the esophagus. Vop.onk. 5  
(MIRA 12:12)  
no.6:751-753 '59.

1. Iz kliniki khirurgii i onkologii (zav. - zasluzhennyj deyatel' nauki RSFSR prof. Yu.A. Ratner) i kafedry rentgenologii i radiologii No.2 (zav. - zasluzhennyj deyatel' nauki Tatarskoy ASSR prof. D.Ye. Gol'dshteyn) Kazanskogo gosudarstvennogo instituta usovershenstvovaniya vrachey im. V.I. Lenina (dir. - prof. I.V. Danilov).

(ESOPHAGUS, neoplasms  
radiother., combined (Rus))

(RADIOTHERAPY, in various dis.  
cancer of esphagus, combined radiother. (Rus))

SUKHORUKOV, B.Z., dotsent; ADRIANOVSKIY, A.F., assistant

Sixtieth birthday of Professor Dmitrii Efimovich Gol'dshtain, honored  
scientist of the Tatar A.S.S.R. Vest.rent.i rad. 34 no.2:99 Mr.-Ap  
'59. (MIRA 13:4)

(GOL'DSHTAIN, DMITRII EFIMOVICH, 1899-)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

ADRIANOVSKIY, A.F.; GOL'DSHTEYN, D.Ye., prof.; GOL'DSHTEYN, M.I.; MITTEL'BERG,  
Ya.B.; SUKHOERUKOV, B.Z.; FAYZULLIN, M.Kh., prof.

Seventh All-Union Congress of Radiologists. Kaz.-med.zhur. 40  
(MIRA 12:11)  
no.2:99-102 Mr-Ap '59.

1. Zasluzhennyy deyatel' nauki Tatarskoy ASSR (for D.Ye.Gol'd-  
shteyn).  
(RADIOLOGY, MEDICAL--CONGRESSES)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

GOL'DSHTEYN, D.Ye., prof.; SUKHORUKOV, B.Z., kand.med.nauk (Kazan')

"Radioactive phosphorus in medical practice" by E.D. Dubovyi. Re-viewed by D.E. Gol'dshteyn, B.Z. Sukhorukov. Kaz.med.zhur. 40 no.4: 106-108 Jl-Ag '59.  
(MIRA 13:2)  
(PHOSPHORUS--ISOTOPES) (DUBOVYI, E.D.)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

SUKHORUKOV, B.Z. (Kazan')

Diagnosis and treatment of tuberculosis of the tongue. Kaz. med.  
zhur. no. 4:90 Jl. Ag :60. (MIRA 13:E)  
(TONGUE--TUBERCULOSIS)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

SUKHORUKOV, B. Z., and ADO, A. D. (USSR)

"The Antigenic Properties of Serum Autoproteins."

Report presented at the 5th International Biochemistry Congress,  
Moscow, 10-16 Aug 1961

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

1. SUMHORUKOV, B.
2. USSR (600)
4. Efficiency, Industrial
7. Inter-plant cooperation in utilizing waste material. Za ekon. mat. no.4, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

SUKHORUKOV, D.

Achievements of the S.M.Kirov Plant. Nauka i zhyttia 9 no.12:  
25-29 D '59. (MIRA 13:4)

1. Zavod frezernykh stankov imeni S.M.Kirova, Odessa.  
(Odessa--Machinery industry)

SUKHORUKOV, F.

An active efficiency innovator. Avt.transp.34 no.11:35 N '56.  
(MLRA 9:12)

i. Komandir Pavlodarskoy avtoroty.  
(Makarov, F.)

DOLGILINOV, S. I.

Tekhnologija Obmotochnoizolatsionnogo Proizvodstva (Technology of Electrical Motor Winding and Insulation), 286 p., Moscow and Leningrad, 1951.

SUKHORUKOV, F.T., inzhener (Sverdlovsk).

Construction of insulation for present-day large electrical machinery.  
Electricheskie no.4:52-55 Ap '56. (MLRA 9:7)  
(Electric insulators and insulation)

SUKHORUKOV, E.V.; LAPIN, B.N.; SIMONOVA, V.I.

Boron in Devonian volcanic rocks of the Gornyy Altai. Geokhimiia  
no.12:1280-1285 D '64.

(MIRA 18:8)

I. Institut geologii i geofiziki Sibirskskogo otdeleniya AN SSSR,  
Novosibirsk.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

PIGOLEV, Sergey Vasil'yevich; SUKHORUKOV, Fedor Vasil'yevich; POPOV, S.V.,  
redaktor; KONYASHIMA, A.D., tekhnicheskiy redaktor

[Fire fighting equipment] Pozharno-tehnicheskoe vooruzhenie. Moskva,  
Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1956. 360 p.  
(Fire extinction) (MIRA 10:1)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

SUKHODUROV, Fedor Vasil'yevich; SIBIRYAKOV, Vasiliy Nikoleyevich;  
SOLODOVNIK, Yakov Abramovich; VOL'F'EV, Ivan Yegorovich;  
VASIKOV, Ivan Nikitich; TROIITSKIY, P.S., nauchn. red.

[Fire extinction equipment] Pozharnaya tekhnika. Moskva,  
Stroiizdat, 1965. 286 p. (Nika 18:2)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

KORZH, M.I.; VAKHTEL', V.Yu.; SUKHORUKOV, G.A.; KUBATA, M.K.

Improving the work of the cooling system of the SMD-14 engine. Trakt. i  
sel'khozmash. no. 14-16 Jl '64. (MIRA 18:7)

1. Gosudarstvennoye spetsial'noye konstruktorskoye byuro po dvigatelyam.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

SUKHORUKOV, G. Ye. Cand Tech Sci -- (diss) "Study of the technological process of mechanized removal of boulders from agricultural lands." Minsk, 1958.  
15 pp (Acad Sci Belorussian SSR. Department of Phys-Math and Tech Sciences),  
100 copies. (KL, 11-58, 118)

PODLJUBNYY, Semen Abramovich; SUKHORUKOV, I.D., otv.red.; IVANOV, S.I.,  
red.izd-va; CHASOVIKOVA, Z.I., tekhn.red.

[Setting-up cableway dump piles for coal mines] Montazh  
kanatnykh terrikonikov na ugol'nykh shakhtakh. Alma-Ata,  
TSentr.in-t nauchno-tekhn.informatsii, 1959. 23 p.

(MIRA 13:8)

(Coal mines and mining--Equipment and supplies)  
(Cableways)

SHRAYMAN, Lev Iosifovich; SUKHORUKOV, I.D., otv.red.; RUSANOV, V.F.,  
red.izd-va; DANILEVSKAYA, R.A., tekhn.red.

[Machine charging and stemming of boreholes] Mekhanizatsiya  
zariazhaniiia i zaboiki shpurov. Alma-Ata, Tsentr.in-t nauchno-  
tekhn.informatsii, 1959. 26 p. (MIRA 13:6)  
(Mining engineering)

TIKHONOV, V.Ya.; SUKHIORUKOV, I.D., otv. red.; FAKTOR, B.S., tekhn.  
red.

[Automation of skip hoists with an asynchronous drive and relay  
cascade control] Avtomatizatsiia skipovykh pod'emnykh ustavovok  
s asinkhronnym privodom pri releino-stupenchatom upravlenii.  
Alma-Ata, TSentr. in-t nauchno-tekhn.informatsii, 1960. 17 p.  
(MIRA 15:2)

1. Karagandinskiy nauchno-issledovatel'skiy ugol'nyy institut  
(for Tikhonov).  
(Hoisting machinery) (Automation)

SUKHORUKOV, I.F.; UL'YANOV, V.I.; OSOBOLEVSKA, N.V.

Determining the thermal expansion of petroleum cokes. Neftper. i  
neftekhim. no.9:20-22 '64. (TFA 17:10)

L 2789-66 EWP(e)/EWT(m)/EPF(c)/EWP(i)/T/EWP(t)/EWF(k)/EWP(b)/EMA(c)  
IJP(c) JD/WW/HW/WH

ACCESSION NR: AP5022245

UR/0363/65/001/007/1005/1009  
546.26-162:539

AUTHOR: Shulepov, S. V.; Oshchepkova, N. V.; Sukhorukov, I. F.; Rodionov, S. G.;  
Pronyushkina, M. V.

TITLE: Defects of the microstructure of synthetic graphite /5

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 7, 1965,  
1005-1009

TOPIC TAGS: graphite, carbon product

ABSTRACT: The purpose of the work was a microscopic study of fine- and medium-grained hot-extruded graphite and the determination of the microstructural defects and their influence on the basic physicomechanical properties of the material. Electrode material, "green" and heat treated electrode blanks, and graphitic carbon materials produced by domestic electrode plants were investigated. Defects in the form of conglomerates, i.e., round masses with a circular particle orientation, were observed in all the samples. The properties of the uniform material and material containing conglomerates are compared. It is found that the density does not determine the quality of the microstructure and remains

Card 1/2

L 2789-66

ACCESSION NR: AP5022245

practically constant at 1.6-1.7 g/cm<sup>3</sup>. The compressive strength of the uniform material is 25-30% higher than that of the material with conglomerates (350 and 475 kg/cm<sup>2</sup>, respectively); the oxidizability of the uniform material during 2 hr at 700C is 28.5%, and its pulverization during physical vacuum tests almost 20% less than that of the material with conglomerates. The microstructural defects observed are stable and do not disappear as the extrusion temperature and pressure are raised, and disturb the isotropy of the properties of the material. An interpretation of the mechanism of defect formation is given. Orig. art. has: 3 figures.

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy institut elektrodnoy promyshlennosti (State Scientific Research Institute of the Electrode Industry)

SUBMITTED: 07Jan65

ENCL: 00

SUB CODE: MT

NO REF SOV: 004

OTHER: 000

Card 2/2 b/cd

GRISHKOV, N.V.; SUDORIKOV, I.E.; TINTAKOV, G.A.

Effect of the microstructure of coke on their articulation.  
Neftegaz. i naftokhim. no.7(31-34 '65). (Lav 10-12)

and that when the final graphite is prepared, the structure and reflectivity

the same time, the number of points in a section

<sup>1</sup> See also the discussion of the relationship between the two concepts in the section on "The Concept of Social Capital."

Card 1/2

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

L 34006-65  
ACCESSION NR: AP5007675

time. They were then taken from the furnace and examined on the microscope. It was found that the insulation had not been melted off the electrodes. The electrodes were then cleaned and the insulation removed. The electrodes were then reinserted into the furnace and the insulation applied. The electrodes were then reinserted into the furnace and the insulation applied.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

SURKHOROV, J.P.; PASHKOV, E.M.; GAVRINA, M.V.

Surface ph zones at the boundary between a carbon material and  
coal tar pitch. Tsvet Met. 38 no.5:65-68 Mr '65.

(MIRA 18:6)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

ACC NR: AP7002407

SOURCE CODE: UR/0363/66/002/012/2237/2240

AUTHOR: Sukhorukov, I. F.; Rodionov, S. G.; Polovoy, B. V.

ORG: State Scientific Research Institute of the Electrode Industry,  
Chelyabinsk (Gosudarstvennyy nauchno-issledovatel'skiy institut elek-  
trodnoy promyshlennosti)

TITLE: Effect of heat treatment of raw materials on the strength of  
fine-grained graphite

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 12,  
1966, 2237-2240

TOPIC TAGS: graphite, pyrolysis, ~~pyrolytic graphite~~, high temperature  
material, heating, compressive strength, GRAPHITIZATION,  
~~SINTERING~~

ABSTRACT: The effect has been studied of carbonaceous material additives  
with a different heat-treatment history on the quality of fine-grained  
graphite for anodes and grids of mercury-arc rectifiers. In the first  
series of experiments, the contact angle of wetting the carbonaceous  
additives with coal-tar pitch was measured in the 70—150°C range to  
determine their surface energy which depends on heat treatment and  
which affects the quality of the pyrolytic graphite products. The  
wetting angle was determined by a photographic method on finely ground

Card 1/3

UDC: 546.26—162:539.4

SUKHORUKOV, I.Ye.

Simplifying the system of pension payments via the postal installations. Vest. sviazi 17 no.11:20-21 N '57. (MIRA 10:12)

1. Nachal'nik otdela Glavnogo pochtovogo upravleniya Ministerstva  
svyazi SSSR.  
(Pensions)

Formation and distribution of bios. K. Sukhorukov,  
L. Kling and D. Klyuchko. *Compt. rend. Acad. Sci. U.R.S.S.* 1, 724-9 (in English A29-31)(1955). In  
vestigations upon bios were carried out, the bioscatalyst

being identified by the "yeast method." Increased nutri-  
tion with sol. carbohydrate does not increase bios forma-  
tion, nitrate N markedly lowers the bios content, ammonia  
N raises it, and the addn. of glucose to the sources of N  
does not affect bios formation. Stimulants of the bios  
type are widely distributed in living organisms, the forma-  
tion of bios proceeding in the green cell under the action  
of the highly refrangible part of the solar spectrum.

Edward Pugh

AIAA-A-100-1 METALURGICAL LITERATURE CLASSIFICATION

The action of bios on processes of putrefaction. K. Sukhorukov and T. Ippel-Boguslavskaya. Compt. rend. Acad. sci. U. R. S. S. 1, 236-9 (in English 630-41) (1930). By using the 2 organisms *B. subtilis* Cohn and *Proteus vulgaris* Hauser, measurements were made of the bacterial growth and amt. of decompos. of albuminous matter under the stimulation of varying concns. of bios from fermenting yeast. The stimulant seems to regulate both types of action. Bios does not activate proteases, but acts on the whole cellular complex. C. E. P. Jeffreys

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653820005-1"

CR

11D

The activators of peroxidase in sick plants. K. Sukhorukov and B. Stroganov. Compt. rend. acad. sci. U.S.S.R. 15, 503-5 (1937).—Mycelium of *Verticillium albo-atrum* and *V. dahliae*, parasites of cotton, grown on synthetic medium, showed low peroxidase activity, and the medium none. The medium, however, increased the peroxidase activity of horse-radish, and the mycelium decreased it. The writers believe that the activator secreted by the fungus stimulates oxidation in the host and hence aids the nutrition of the fungus. L. T. Willaman

*cc*

The recovery of Babbitt metal from bronze Babbitt turnings. S. I. Vasilevskii, K. N. Sukhorukov and V. N. Petrikil. *Litvina Delo* 10, No. 7, 24-6(1959); *Chem. Zdrav.* 1040, 1, 2533; cf. C. A. 54, 5812<sup>a</sup>.—A special furnace with 2 ring-shaped chambers and heated with mazut to 850-900° was developed for the remelting of the Babbitt turnings. The gases of combustion formed in the outer chamber circulate about a crucible with a somewhat inclined bottom. The temp. of the metal must not exceed 430-50°. The complete process requires 50-70 min. The procedure is described. M. G. Moore

COUNCIL ELEMENTS

CPA

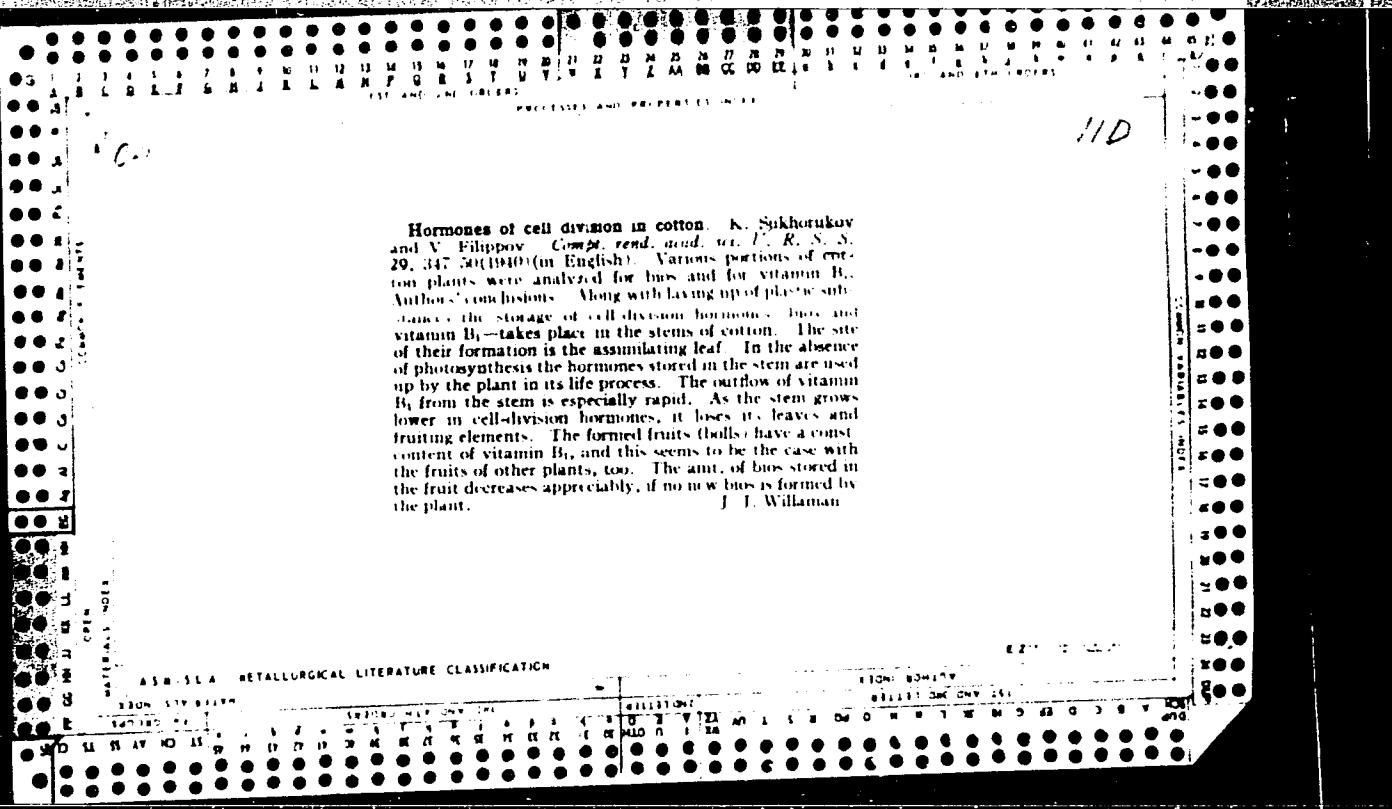
MATERIALS INDEX

## ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

110  
Sistoamylase of potato tubers. K. Sukhorukov and L. Nesgovorov. *Compt. rend. acad. sci. U. R. S. S.* 27, 29-32 (1940) (in English).—A thermolabile and a thermostable form of sistoamylase were found in potato tubers. The labile form seems to be assoc. with starch synthesis, since it was absent in sprouting tubers, present in resting tubers, and when incubated with dextrins changed their color toward the blue. J. F. Willaman

ASIA-SLA METALLURGICAL LITERATURE CLASSIFICATION

62



CA

15A

**Regarding the resistance of grasses to rust (Puccinia).** K.  
Sokolnikov and O. Smirnov. V. A. Kulyshov State

USSR, Tomsk, U.S.S.R. - *Grass, rust, and N*.  
Vestn. Nauk. Akad. Nauk SSSR 47, no. 6 (1950). English, 734 pp. (Ed.)  
Vestn. Nauk. Akad. Nauk SSSR 47, no. 6 (1950). To test the theory that  
resistance of plants to rust fungi depends on N exchange,  
rate of assimilation of fungous secretions, and NH<sub>4</sub>H<sub>2</sub>O  
content of cells, wheat inoculated with *Puccinia triticina*  
and *P. persicae*, and rye inoculated with *P. graminis*  
were sprayed with NH<sub>4</sub>H<sub>2</sub>PO<sub>4</sub> and urea solns. Rust in-  
fection was measured by the no. of rust sori developing on  
inoculated leaves. Fewer sori developed on the N-  
treated plants except wheat inoculated with *P. triticina*  
where most of the treated plants showed an increase in the  
no. of sori. It is concluded that resistance of Gramineae  
to rust can be increased by applying N compds. to leaves  
infected with rusts of low aggressiveness, and that rust  
resistance is based on failures of N exchange in plants.

K. Starr Chester

ARMED FORCES METALLURGICAL LITERATURE CLASSIFICATION

Cell division horizons in flowers of certain plants  
K. N. Slobodkin and V. I. Ulyanov. V. A. Kurnakov Inst. of  
Cytology, USSR. Dokl. Akad. Nauk SSSR, 1970, v. 197, p. 111-114.  
U.S.S.R. Publ. Assn. Sci. U.S.S.R., 1971, v. 17, p. 111-114.  
Chemical analysis of the flower buds of *Malva sylvestris* L. and *Malva neglecta* L. was carried out at different stages of development. The results of the analysis show that the rate of growth for dry matter, proteins, chlorophyll, tannins and vitamin B<sub>12</sub>, translocation of dry matter and biosynthesis of the corolla to other parts of the flower and plant occurs after the flower developed. Dry matter, proteins, chlorophyll and vitamin B<sub>12</sub> accumulated in the ovaries throughout development. Young ovaries, however, contained the substances of tannin in proportion to the dry mass. The differences in the process of accumulation of these substances in the ovaries were noted.

(R. of A.M.)

SUKHORUKOV (K.) & KLING (E.). Influence of copper upon the Potato plant.—  
C. R. Acad. Sci. U.R.S.S., N.S., xlvi, 6, pp. 436-438, 1945.

Leaves from potato plants treated with copper and inoculated with a highly virulent suspension of the conidia of *Phytophthora infestans* showed after four days a poor growth of mycelium of the fungus, with slight formation of conidia and sharply delimited, dark necroses to the extent of 30 per cent. of the leaf, whereas the controls showed 100 per cent. darkening of the whole leaf, with good growth of mycelium and normal conidial formation. Further experiments showed that, while the growth of *P. infestans* was stimulated in culture by the presence of 0.125 per cent. copper and depressed by stronger solutions, peroxidase activity [R.A.M., xix, p. 300] was greater in the copper-treated leaves than in the controls (in the proportion of 18.1 to 12.2). Potato species and varieties immune from *P. infestans* showed a higher peroxidase activity than susceptibles, and the authors believe that copper does not only protect the plant directly by its toxic action but indirectly through a change induced in the physiological properties of the plant.

CA

ID

## PRINCIPAL AND ACCORDING TO

Growth hormones in a diseased plant. K. Čukáčeková  
 Josef B. Šimánek. *České ročníky Tř. Č. S. P.* 47,  
 č. 1945. *Botany and Agriculture*, 59, A.P. 47, 617-20.  
 No auxin was found in the diseased leaves of oats  
*Oryza sativa* severely infected by *Puccinia communis*.  
 In infected tubers of the potato variety Early Rose  
*Solanum tuberosum*) highly susceptible to *Phytophthora infestans*, there is an accumulation of auxins. In the resistant variety, the auxins are diminished. *Rhizopus stolonifer* (I) is clearly able to form hormones of the 2 types, the conditions of nutrition having a noticeable effect upon this process. Abnormalities in the growth of diseased plants may be explained by an excessive supply of hormones to the tissues affected. *Azergulus ritteri* is capable of producing auxin, but the ways of its formation within the organism differ from that of I. The latter shows a clear, positive reaction for tyrosine, and the hexameric rings are evidently readily converted into indole rings. Here the tyrosine is assimilated by the organism without a direct and rapid conversion into indole. In I the ability to produce auxin is a bio-l. important adaptation to parasitism. In dead cells with protective incrustations there occurs a breakdown of the auxins. To conclude, the author states that in diseased plants the auxins are destroyed in the case of protective incrustations, while no auxins are formed in dead

cells. Parasitic organisms which disturb the correlation between the growth processes of I are capable of producing and secreting auxins and hormones of cell division.

Leonard Karel

## ASR-SLA METALLURGICAL LITERATURE CLASSIFICATION

ECONOMIC INDUSTRY

IRON AND STEEL

IRON AND STEEL

*CA**11D*

Effect of heteroauxin upon cells of diseased plant  
K. Sukhorukov and B. Stryganyov. Comp. rend. Acad. sci. U.R.S.S. 48, 210-12 (1945) (in English). Lamellae from the cortex of carrot roots were half immersed in solutions of indoleacetic acid (I), 0.01%, 0.1% and 1.0%. After 24 hrs. the halves were septed and analyzed for biosynthesis of IAA with H<sub>3</sub>I and degt. The growth of yeast in the ext. On the avg., the growth of yeast was reduced 60% in the ext. from the immersed half. Therefore I enhances the diffusion of IAA from the cells. Parasites may modify the distribution of cell division hormones in a diseased plant by liberating auxins and thus create for themselves favorable conditions for nutrition and growth.

Carl S. Gilbert

## AS-31A - METALLURGICAL LITERATURE CLASSIFICATION

ECONOMIC INFORMATION		TECHNICAL INFORMATION	
142242	29	142242	29

STREKOV, K. L. V.

ibr., Lab. Photosynthesis im. A. N. Rikhter, Inst. Plant Physiol. im Timiryazev, Dept. Biol. Sci., Acad. Sci., -1944-46-. Tomsk State Univ. (Dept. Plant Physiol. & Biochem., -1 40-; Mar., -1944-46-). "On Systoamylase of Potato Tubers," Dok. AN, 27, No. 1, 1940; "Hormones of Cell Division in Cotton," ibid., 29, No. 1, 1940; "Photosynthesis and Growth-Processes in Beet (Beta Vulgaris L.)," ibid., 45, No. 6, 1944; "Photosynthesis and Development of Plants," Dok. AN, 46, No. 1, 1945; "Photosynthesis and Growth," ibid., No. 4, 1945; "State of the Leaf and Photosynthesis," ibid., 47, No. 1, 1945; "On the Effect of Heteroauxine upon Cells of Diseased Plant," ibid., 48, No. 3, 1945; (A Strogenov, B.) "Free and Bound Hormone of Cell Division in Plants," ibid., 53, No. 5, 1946; "On the Action of Auxines Upon Plant Cells," ibid., 54, No. 1, 1946;

SUKHORUKOV, K. N., Prof.

"Cellular Fission Hormones in Higher Plant Life," lecture given at the 29 June 1946 session of Dept. Biological Science, Acad. Sci., USSR. A great deal of interest was shown by the participants in this lecture which disclosed the results of 15 years of Sukhorukov's work in this field.

SO: Vestnik Akad. Nauk, 8 Sept 1946

CA

II

EXTRACTS AND SEEDLINGS  
Free and bound hormone of cell division in plants. I.  
Sukhorukov and N. Bolshakova (Leningrad State Univ.,  
Compt. rend. acad. sci. U.R.S.S. 53, 474 (1946) in  
English).—Free hormone was extd. with boiling 80%  
H<sub>2</sub>O<sub>2</sub>. The residue was heated with 0.2 N KOH 1 hr.  
and the ext. neutralized to give the bound hormone. The  
concn. of hormone was measured by the growth of yeast  
cells (*Saccharomyces cerevisiae*, Gobbioli, Mayer). In  
leaf buds of native birch (*Betula pendula*) in Feb. free  
bound hormone was about 0.2%; in the exotic hawthorn (*Tilia  
cordata*) it was 0.6 to 1%. In potted wheat, rye and aloe  
(*Aloe* spp.) plants brought from 18° to 4°, both free and  
bound hormone increased. When brought to -25°, the  
tree always increased, but the bound behaved irregularly.  
There was no relation between changes in free hormone  
and amino N. J. J. Williamson

## AER-514 METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED												INDEXED																							
SEARCHED						INDEXED						SEARCHED						INDEXED																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

CA

J D

The action of auxins on plant cells. K. Sukhorukov and O. Semovskikh (Tomsk State Univ., Russia). Compt. rend. acad. sci. U.R.S.S. 54, 85-7 (1940) (in English). Severed oat coleoptiles were used to det. the effect of auxins on cell-division hormones and the distribution of proteins and sugars in the coleoptiles. Severed tips of the coleoptiles served as a source of auxins. Application of increasing amts. of auxins resulted in an increase in the hormone content of both the apical and basal parts of the coleoptiles. Introduction of auxins from the tips slowed down the synthesis of proteins and the transport of endogenous substances from the cytoplasm; this resulted in a much lower but more uniform protein content in the coleoptiles. The base portions of normal coleoptiles were higher in sugar than the upper portions, but when added auxins were added, these differences tended to disappear; these facts indicated that auxins facilitated the diffusion of sugars in the tissue. J. E. Webster

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

SUKHORUKOV, K.

USSR/Medicine - Botany  
Medicine - Biography

Jan/Feb 48

"In Memory of Andrey Aleksandrovich Rikhter," E. Kling, V. Novikov, K. Sukhorukov,  
Moscow, 6 $\frac{1}{2}$  pp

"Botan Zhur" Vol XXXIII, No 1

Summarizes career of famous botanist and physiologist (1871 - 1947). Lists published  
work. Includes photograph.

PA 36/49T40

BUKOVSKY, V. P.,

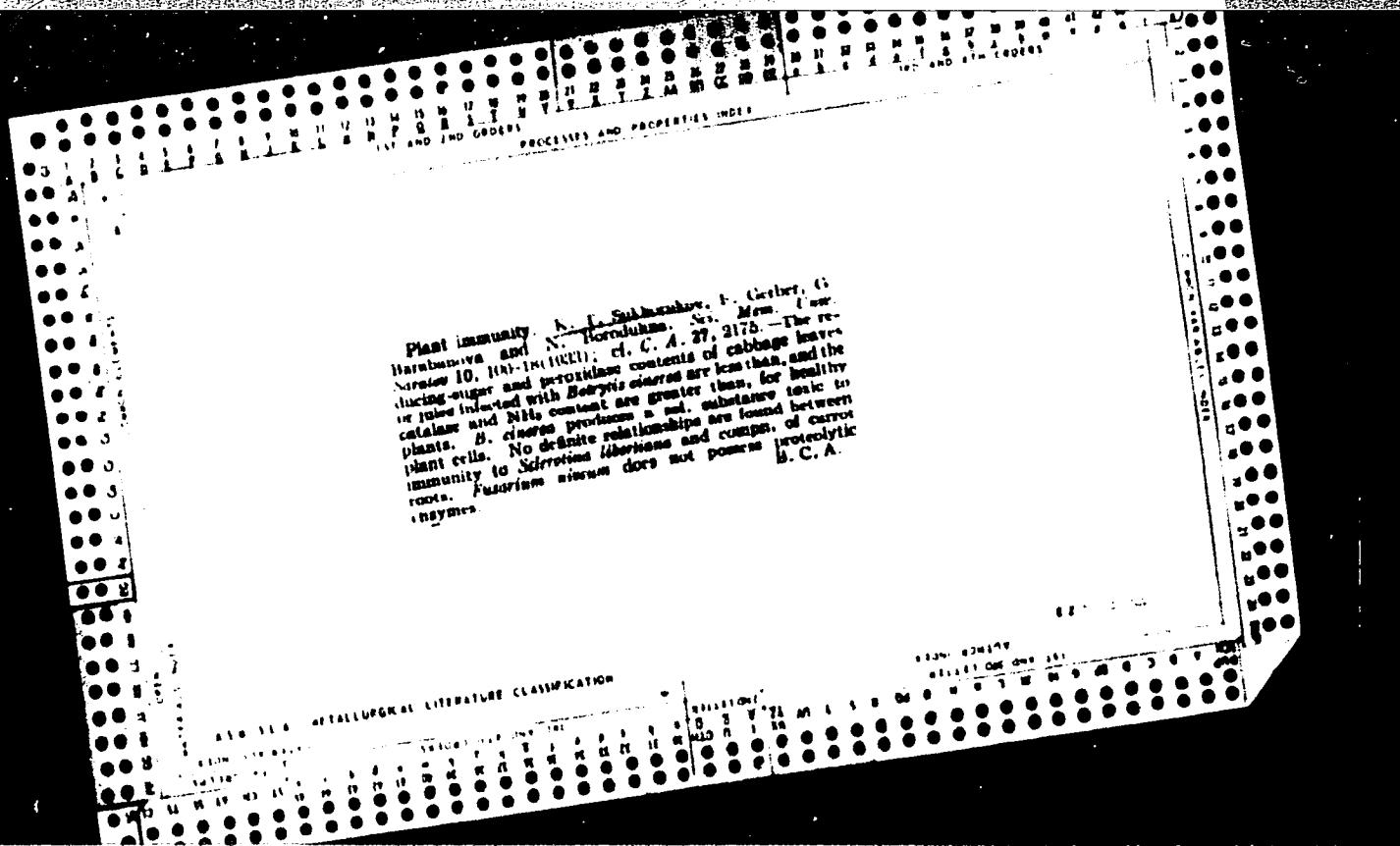
VILNER, A., KLING, E., GERB-SHLIAV, E., and DAKA ANDVA, G. "Bio-climatic Causes, Which Condition the Resistance of Plants to Parasitic Infections," Bulleten' VII Vsesoiuznogo Slezda po Zashchite Rastenii v Leningrade 15-23 Noia'ria 1932 Goia, no. 7, 1932, pp. 24-25, 423.92  
v94

To: Sirs "1-90-53, 15 Dec. 1952

The nitrogen metabolism of alkaloidal plants. K. T. Sukhorukov and N. A. Borodulin. *Bull. Acad. SSSR, U. R. S. S., Classe sci. math. nat.* 1932, 1517-30.—In *Datura stramonium* L. and *D. meteloides* D. C. alkaloid formation is favored by increasing the available supply of ammonium N (I) and decreasing the carbohydrate content. Nitrate N cannot be substituted for I. If the available I is decreased or the relative carbohydrate content increases, protein synthesis occurs even at the expense of alkaloid N. Acidification of the medium decreases the alkaloid content. Internally alkaloids play the part of N buffers in the metabolism of the plant by (1) regulating the N consumption of the plant and (2) protecting it from the harmful effects of an excess of I. Externally alkaloids serve to regulate the reaction of the medium by supplying NH<sub>3</sub> for the neutralization of acids. The chemistry of the formation of NH<sub>3</sub> from the alkaloid (atropine) is not understood. In the expts. reported a no. of methods were employed to obtain a given effect and the results so obtained were uniformly harmonious. Carbohydrate content was increased by exposure to light, compression of the plant stems, and floating on 1% glucose soln. I was supplied as 0.2% (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, w/w, either by injection of the stems or by floating. Lewis W. Butz

ASH SLA METALLURGICAL LITERATURE CLASSIFICATION

Role of fatty and essential oils in the oxidation-reduction system of plant cells. K. T. Slobogukov and A. G. Drushinina. *Sci. Mem. Univ. Saratov* 10, No. 2, 81-94 (1933).— During the process of ripening of coriander seeds dehydrogenation of fatty acids takes place, with concomitant reduction of essential oils; this oxidation-reduction system is irreversible. Only traces of glutathione are present at any stage of development. B. C. A.



SUPHORUMOV, V. T.

"A study of the Symptoms Indicating Resistance of Cotton Varieties to Wilt  
and Gummosis," Trudy Instituta Fiziologii Rastenii imeni V. A. Timiriazeva,  
vol. 2, no. 1, 1937, pp. 117-137. 451 Akts

cc: Sira Sl-90-53, 15 Dec. 1953

OVCHIGUIN, V. T.,

and OVCHAROV, K. E. "On the Nature of Immunity to Rust," Comptes Rendus  
(zhurnal) de l'Academie des Sciences de l'URSS, vol. 14, no. 6, 1937, pp. 393-  
396. 511 F444

Re: Sira Sl-90-53, 15 Dec. 1953

SUKHORUKOV, K. T.,

and STRUGOV, B. I. "The Activators of Peroxidase in Diseased Plants,"  
Comptes Rendus (Ooklady) de l'Academie des Sciences de l'URSS, vol. 15,  
no. 9, 1937, pp. 563-565. 511 P/4.

Re: Fira Sl-90-53, 15 Dec. 1943

SUKHORUKOV, K. T.

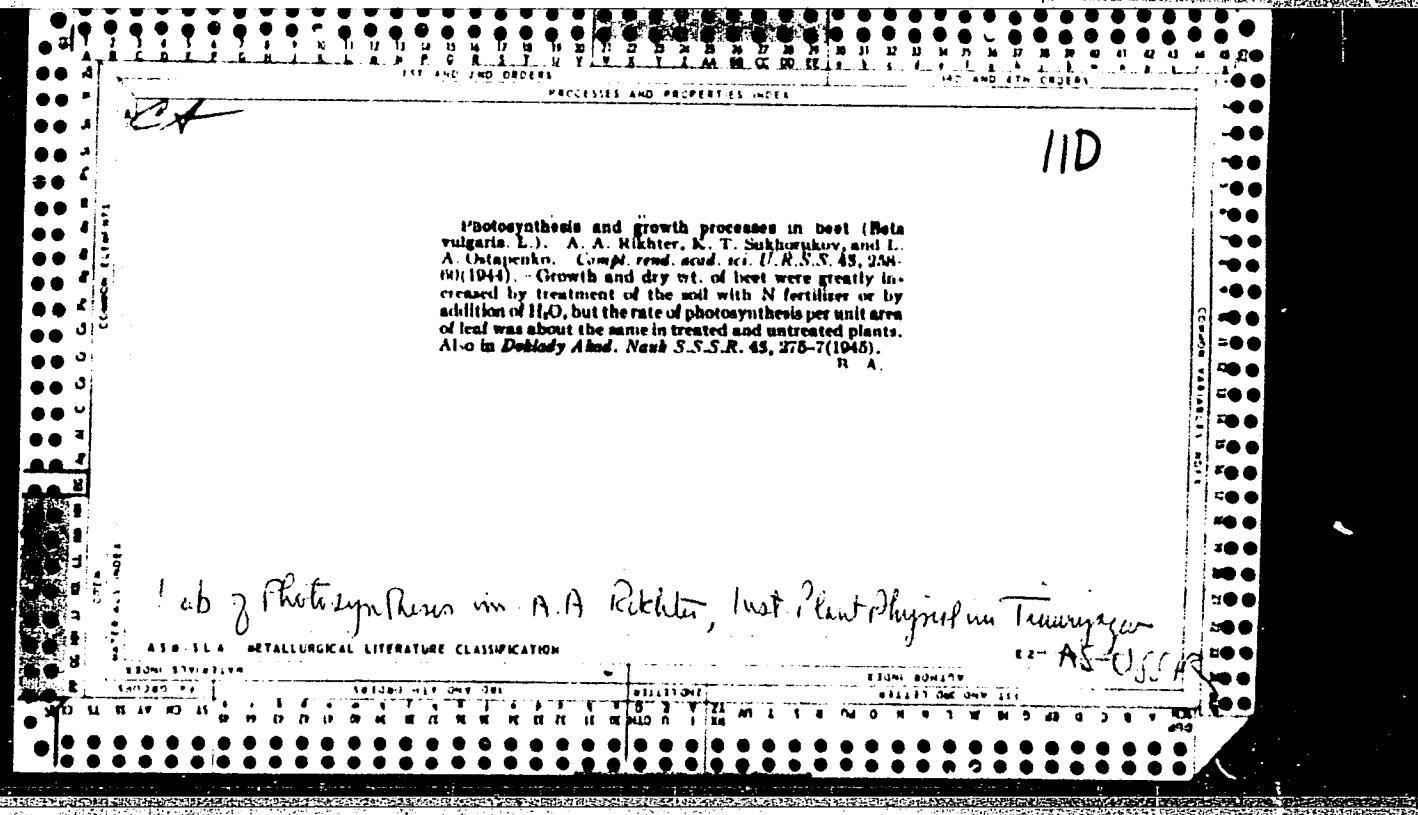
SUKHORUKOV, K. T., and NATAL'INA, G. B. "On the Harmfulness of Anthracnose of Black Currant," Comptes Rendus (Doklady) de l'Academie des Sciences de l'URSS, vol. 12, no. 1-2, 1937, pp. 72-76. 511 Phil.

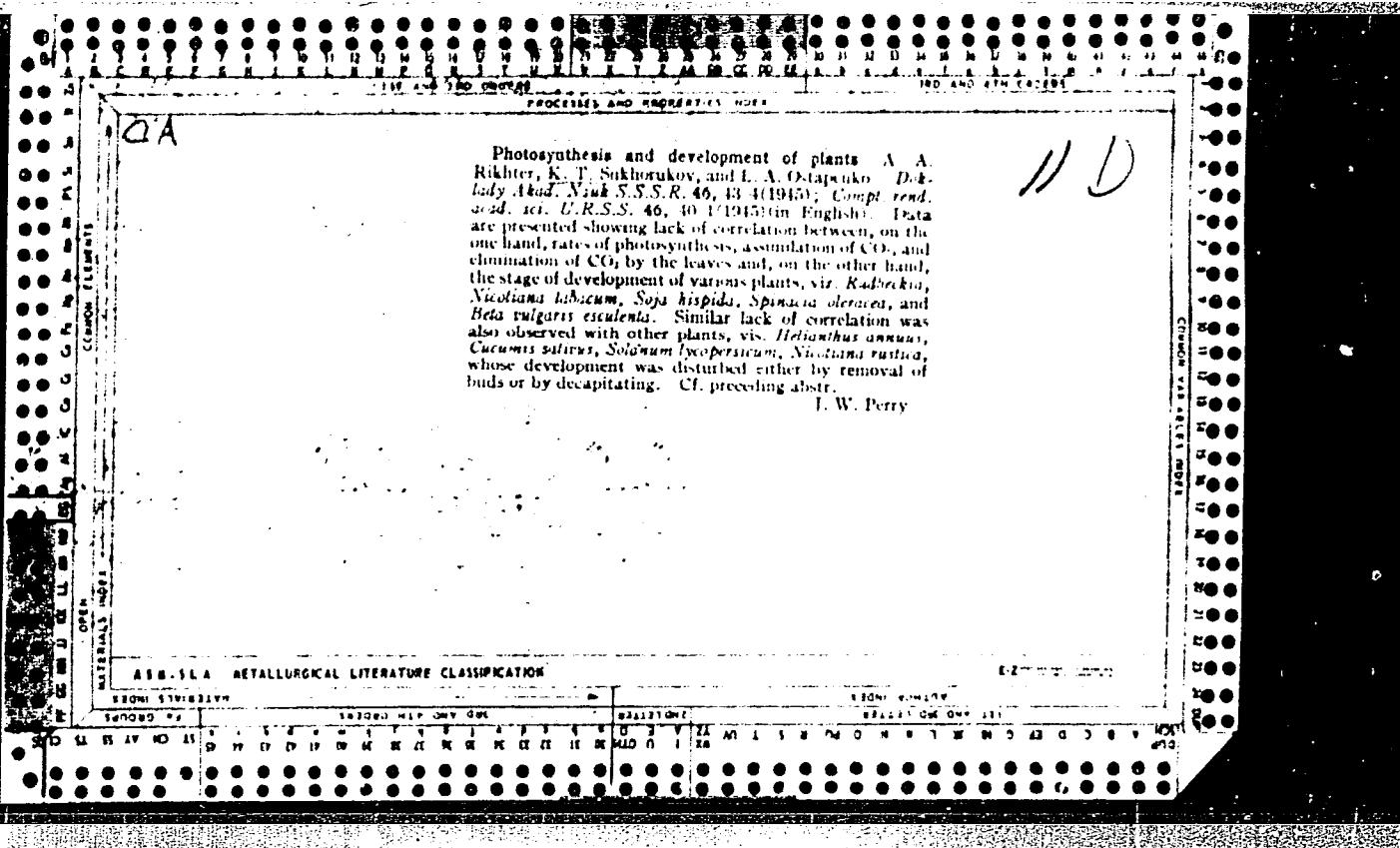
So: SIRA SI-90-53, 15 Dec. 1953

SUKHORUKOV, K. T.

SUKHORUKOV, K. T., KLING, E., and OVCHAROV, K. E. "The Effects of Phytophthora infestans de Bary on the Ferments of Affected Plants," Comptes Rendus (Doklady) de l'Academie des Sciences de l'URSS, vol. 18, no. 8, 1938, pp. 597-602.  
511 Pl.44 .

So: Sira Si-00-52-15 Dec. 1953





CA

//D

Photosynthesis and growth. A. A. Rikhter, K. T. Sukhomilov and L. A. Ostapenko. *Doklady Akad. Nauk S.S.R.* 40, 181-3 (1955); *Compt. rend. acad. sci. U.R.S.S.* 40, 165-7 (1955) (in English). Further expts. (cf. C.A. 39, 40159) with sunflower, corn, cucumber, tobacco, kok-saghyz, soybean, and multiflora bean plants confirm previous conclusions as to lack of correlation between the stage of development and rate of photosynthesis.

J. W. Petty

## ASH SLA METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED	INDEXED	FILED	SEARCHED	INDEXED	FILED
NO	AV	IS	NO	AV	IS
NO	AV	IS	NO	AV	IS
NO	AV	IS	NO	AV	IS
NO	AV	IS	NO	AV	IS

*CA*

Carbon dioxide assimilation in growing organs. A. A. Rikhter, K. I. Sukhorukov, and L. A. Ostapenko. *Dokl. Akad. Nauk S.S.R.* **40**, 329-331 (1945); *Compt. rend. acad. sci. U.R.S.S.* **40**, 299-300 (1945) (in English). Expts. with *Helianthus annuus*, both normal and decapitated, are reported. The results indicate that a certain level of photosynthesis is established in the growing leaf at a rather early stage in its life history; thereafter other processes taking place in the plant affect photosynthesis in the leaf but slightly. A relation exists between photosynthesis and respiration in the stem, whose structure is favorable to assimilation, by photosynthesis, of CO<sub>2</sub> of respiration but not of atm. CO<sub>2</sub>. J. W. Perry

*11D*

## ASH-SEA METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED	INDEXED	FILED	SEARCHED	INDEXED	FILED
SEARCHED 4/2 100009 42	SEARCHED 4/2 100009 42	INDEXED 4/2 100009 42	SEARCHED 4/2 100009 42	INDEXED 4/2 100009 42	FILED 4/2 100009 42

*OK**110*

## RECEIVED AND INDEXED 6/27/71

State of the leaf and photosynthesis. A. A. Piskov, K. T. Sukhomlyov, and L. A. Ostapenko [Eds. of Photosynthesis, Acad. of Sci., U.S.S.R.]. *Doklady Akad Nauk S.S.R.* 47, 71-4 (1950); *Compt. rend. Acad. U.R.S.S.* 47, 87-70 (1945).—Sunflower leaves were girdled, by killing petiole cells with  $\text{CHCl}_3$ , in plants with and without removal of flowering heads. Accumulation of assimilates in leaves were detd. by change in dry wt. and rates of photosynthesis and respiration. Decapitation caused great increases of synthesis in the leaf and of translocation of assimilates in the dark. The assimilative power of leaves decreased with senescence in tests of sunflower, cucumber, broadbean, corn, *Nicotiana tabacum*, beet, tomato, lettuce, and pumpkin. Photosynthesis and respiration were relatively unaffected by presence or absence of anthocyanin in beet and *Perilla*. Assimilation remained constant from 7:00 A.M. to 7:00 P.M. in sunflower, corn, and *N. rustica*. K. Starr Chester

## ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

SECOND LINE		SECOND LINE ONLY ONE		SECOND LINE		SECOND LINE	
STANDARD	ADDITIONAL	STANDARD	ADDITIONAL	STANDARD	ADDITIONAL	STANDARD	ADDITIONAL
11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26
27	28	29	30	31	32	33	34
35	36	37	38	39	40	41	42
43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58
59	60	61	62	63	64	65	66
68	69	70	71	72	73	74	75
78	79	80	81	82	83	84	85
88	89	90	91	92	93	94	95
98	99	100	101	102	103	104	105

SUKHORUKOV, K. T.

SUKHORUKOV, K. T., and S. MIRNOVA, O. "Raising the Resistance of Grasses to Rust (Puccinia on Wheat and Rye)," Comptes Rendus (Doklady) de l'Academie des Sciences de l'URSS, vol. 47., no. 4, 1945, pp. 304-306. 511 PL44.

So: SIRA SI-90-53, 15 Dec. 1953

SUKHORUKOV, K. T.

SUKHORUKOV, K. T., and KLING, E. "Influence of Copper upon the Potato Plant (in Connection with Phytophthora)," Comptes Rendus (Doklady) de l'Academie des Sciences de l'URSS, vol. 47, no. 6, 1945, pp. 136-138. 511 P444.

So: SIRA SI-90-53, 1953

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

SUKHORUKOV, K. T.

SUKHORUKOV, K. T., and STROGOV, B. P. "On the Growth Hormones in a Diseased Plant," Comptes Rendus (Doklady) de l'Academie des Sciences de l'URSS, vol. 47, no. 6, 1945, pp. 593-596. 511 P444.

So: SIRA SI-90-53, 15 Dec. 1953

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

SUKHORUKOV, E. T.

30247

Glazkova, R. V. Ryeaktsiya rastyeniya na vvyedyennyye cyermyenty. Trudy  
In-ta fiziologii rastyenii im. Timiryazeva. T. VI, vyp. 2, 1949,  
s. 260-67.--Bibliogr: 8 nazv.

SO: LETOPIS' NO. 34

SUKHORUKOV, K. T.

30246

Akadyemik Andayey Alyeksandrovich Rikhtver. [Botanik. 1871-1947. Biogr. ochyerk.]  
Trudy In-ta fiziologii rastyeniya im. Timiryazyeva t. VI, vyp. 2, 1949,  
s.3-9-5 portr.

SO: LETOPIS' NO. 34

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

SUKHODUROV, K. T., NOVOSILCOVA, A. N.

"On the Physiology of 'Black' (black rot?), Byul Glav Botan Sad,  
(Bulletin of the Main Botanical Garden), 1950, Issue 6.

Mikrobiologiya, Vol XX, No. 5, 1951

■■■W-24635

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

1. SUKIORUKOV, K. T. and NOVOSELOVA, A. N.
2. USSR (600)
4. Botany - Physiology
7. Peculiarities of the transformation of nitrogenous substances in old organs of a plant. Biul.Glav.bot.sada no. 13, 1952.
9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

SUKHORUKOV, K.T.

SUKHORUKOV, K.T.; BARKOVSKAYA, G.Ye.

Consequences of reduced temperatures on the state of enzymes in  
plants. Biul.Glav.bot.sada no.16:55-60 '53. (MLRA 7:4)

1. Glavnnyy botanicheskiy sad Akademii nauk SSSR.  
(Plants, Effect of temperature on) (Enzymes)

SUKHORUKOV, K.T.; MALYSHEVA, K.M.

~~Effect of poison on plants. Biul.Glav.bot. sada no.22:47-56 '55.~~  
~~(MLRA 9:5)~~

1. Glavnnyy botanicheskiy sad Akademii nauk SSSR.  
(Plants, Effect of poisons on)

SUKHORUKOV, K.T., professor.

Second International Conference on the protection of plants. West.  
AN SSSR 26 no.11:90-91 N '56. (MIRA 9:12)  
(Great Britain--Plants, Protection of--Congresses)

SUKHORUKOV, K. T. (Moskva/USSR)

"Faktoren von passiver und aktiver Bedeutung in der Immunität von Pflanzen,"  
report submitted for presentation at the IV International Congress of Crop Protection,  
held from 8-15 Sep 1957 in Hamburg.

under the section of the Congress devoted to Microbial and non-parasitic plant  
diseases

SUKHORUKOV, K.T.

International Conference of Plant Protection. Izv. AN SSSR Ser.biol.  
22 no.1:124-128 Ja-F '57. (MIRA 10:3)  
(FERNHURST, ENGLAND--PLANTS, PROTECTION OF--CONGRESSES)

SUKHORUKOV, K.T.

Effect of poisons on the plasma and physiological processes in plants.  
Biul. Glav. bot. sada no.28:54-56 '57. (MIRA 11:1)

1. Glavnnyy botanicheskiy sad Akademii nauk SSSR.  
(Plants, Effect of poisons on)

SUKHORUKOV, K.T.

Second All-Union Conference on Plant Protection (June 19-22, 1956).  
(MIRA 11:1)  
Biul. Glav. bot. sada no.29:101-103 '57.  
(London--Plants, Protection of--Congresses)

SUKHORUKOV, K.T. (Leningrad)

At the second International Conference on Plant Protection.  
Bot.zhur. 42 no.3:511 Mr '57. (MLRA 10:5)  
(Fernhurst, England--Plants, Protection of--Congresses)

SUKHORUKOV, K. T.

"Respiration by Diseased Plants."  
Paper Submitted for the Int'l Botanical Congress, Montreal, Canada, 19-29 Aug 1959

Main Botanical Gardens, U.S.S.R. Academy of Sciences, Moscow.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1

SUKHORUKOV, K. T. (Moscow)

"The significance of antibotical and biotical substances in host-parasite relations."

report submitted for the International Conference on Scientific Problems of Plant Protection, Budapest, 19-22 July 1960.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653820005-1"

SUKHORUKOV, K.T.

Two-hundredth anniversary of the Royal Botanic Gardens of Kew.  
Izv. AN SSSR. Ser. biol. no.3:465-469 My-Je '60. (MIRA 13:7)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR.  
(KEW, ENGLAND, ROYAL BOTANIC GARDENS)

GILYAROV, M.S., doktor biol.nauk; SUKHOHUKOV, K.T., doktor biol.nauk  
International Conference on Plant Protection. Vest.AN SSSR 30  
no.11:113-114 N '60. (MIRA 13:11)  
(Plants, Protection of)

SUKHORUKOV, K.T.; TALILEVA, M.N.

Effect of antibiotics from higher plants on phytopathogenic  
fungi and the growth of plants. Biul. Glav. bot. sada no.39:33-  
42 '60. (MIRA 14:5)

1. Glavnnyy botanicheskiy sad AN SSSR.  
(Antibiotics)  
(Plant diseases)  
(Growth (Plants))

SERGEYEV, Leonid Ivanovich; SERGEYEVA, Klavdiya Alakeseyevna;  
MEL'NIKOV, Valeriy Konstantinovich; SUKHORUKOV, K.T.,  
doktor biol. nauk, prof., otd. red.; GAFUROVA, T.I., red.;  
VALEYEV, G.G., tekhn. red.

[Morphological and physiological periodicity and winter  
hardiness of woody plants] Morfo-fiziologicheskaiia periodichnost'  
i zimostoikost' drevesnykh rastenii. Ufa, Akad. nauk SSSR.  
Bashkirskii filial, In-t biologii, 1961. 221 p. (MIRA 15:7)  
(Bashkiria--Woody plants)  
(Bashkiria--Plants--Frost resistance)

GILYAROV, M.S.; SUKHORUKOV, K.T.

Anniversary conference on the protection of plants in Hungary.  
Izv. AN SSSR. Ser. biol. no.2:314-316 Mr-Ap '61. (MIA 14:3)  
(HUNGARY--PLANTS, PROTECTION OF--CONGRESSES)

SUKHORUKOV, K.T.

"Microbiological methods of vitamin assay" by E.N.Odintsova.  
Reviewed by K.T.Sukhorukov. Izv. AN SSSR. Ser. biol. 26 no.5:  
831-832 S-0 '61. (MIRA 14:9)  
(VITAMINS) (BIOLOGICAL ASSAY) (ODINTSOVA, E.N.)

FILIPPOV, Vladimir Vasil'yevich; SUKHORUKOV, K.T., doktor biol. nauk,  
otv. red.; MIKHLIN, E.D., red.izd-va; KASHINA, P.S., tekhn.  
red.

[Biotin in plants and animals] Biotin v rastitel'nom i zhivot-  
nom organizmakh. Moskva, Izd-vo Akad. nauk SSSR, 1962. 231 p.  
(MIRA 15:2)

(Plants--Biotin content) (Animals--Biotin content)

SUKHORUKOV, K.T.

Study of plant physiology at the Slovak Academy of Sciences. Biul.  
Glav. bot. sada no.46:111-114 '62. (MIRA 16:5)

1. Glavnnyy botanicheskiy sad AN SSSR.  
(Slovakia—Plant physiology)

SUKHORUKOV, K.T.; SUTULOV, A.N.

Oxygen absorption by killed plants. Zhur. ob. biol. 23 no.2:109-113  
Mr-Ap '62. (MIRA 15:5)

1. The Main Botanical Gardens, Academy of Sciences of the U.S.S.R.,  
Moscow.

(PLANTS--RESPIRATION)

SUKHORUKOV, K.T.; PLOTNIKOVA, Yu.M.

On the physiology of ectodesmata. Dokl. AN SSSR 147  
no.2:490-492 N '62. (MIRA 15:11)

1. Glavnny botanicheskiy sad AN SSSR. Predstavлено  
akademkom N.V. TSITSINYM.  
(Plant cells and tissues)

SUKHORUKOV, K.T.; PLOTNIKOVA, Yu.M.

Ectodesmata in plants injured by phytopathogenic fungi. Dokl.  
AN SSSR 152 no.3:758-760 S '63. (MIRA 16:12)

1. Glavnny botanicheskiy sad AN SSSR. Predstavлено akademikom  
A.L.Kursanovym.

TSITSIN, N.V., akademik, otv. red.; BYLOV, V.N., red.; VERZILOV,  
V.F., red.; KUL'TIASOV, M.V., red.; LAPIN, P.I., red.;  
BALYGIN, Yu.N., red.; OGOLEVETS, G.S., red.; SUKHORUKOV,  
K.T., red.; CHERKASSKIY, Ye.S., red.; SAFONOV, V.I., red.

[Evolutionary biochemistry of plants] Evoliutsionnaia bio-  
khimiia rastenii. Moskva, Izd-vo "Nauka," 1964. 142 p.  
(MIRA 17:4)

1. Moscow. Glavnnyy botanicheskiy sad.

SUKHORUKOV, K.T.; PLOTNIKOVA, Yu.M. (Moskva)

Structure and functions of plasmodesmas and ectodesmas. Usp.  
sovrs. biol. 60 no.2:299-315 S.-O '65. (MIRA 18:1C)

1. Glavnyy botanicheskiy sad AN SSSR.